

## An optical wavelength multiplexing and demultiplexing device and an optical transmission system using the same

Patent Number: EP0847158

Publication date: 1998-06-10

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Requested Patent:  EP0847158, A3

Application Number: EP19970111539 19970708

Priority Number(s): JP19960328279 19961209

IPC Classification: H04J14/02

EC Classification: H04J14/02A, H04Q11/00P

Equivalents: CN1078989B, CN1185068,  JP10173598,  US6061157

Cited Documents: EP0687085; EP0651528; JP59039131

### Abstract

An optical wavelength multiplexing and demultiplexing device may transmit an optical signal equivalent to a lost optical signal on a normal section in WDM network. The optical wavelength multiplexing and demultiplexing device includes an optical add-drop multiplexing circuit having a plurality of pairs of input and output ports and a plurality of path switches, each connected to a corresponding pair of the plurality of pairs of input and output ports for breaking off an optical signal inputted to an input port of the corresponding pair, and switching a path of an optical signal output from an output port of the corresponding pair to the input port of the corresponding pair. 

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